

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

ORDER NO. 86-94

AN ORDER AMENDING ORDER NO. 86-22
WASTE DISCHARGE REQUIREMENTS FOR:

HEWLETT PACKARD
1501 PAGE MILL RD.
PALO ALTO
SANTA CLARA COUNTY

STANFORD UNIVERSITY
PALO ALTO
SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

1. On March 19, 1986, the Regional Board adopted Order No. 86-22 prescribing waste discharge requirements for Hewlett Packard, and Stanford University, Palo Alto (hereinafter referred to as the dischargers).
2. The site is located along the border between the foothills of the Santa Cruz Mountains and the Santa Clara Valley between Page Mill Road and Hanover Street. The land has been leased by Hewlett Packard from Stanford University since 1957.
3. Several subsurface chemical storage tanks were installed in the period from 1965 to 1978. These tanks, formerly containing waste and industrial - grade solvents and oils including: trichloroethylene (TCE), 1,1,1-trichloroethane (TCA), benzene, and toluene, were located in two general areas: (1) adjacent and south of buildings 6 and 6A, and (2) northeast of building 4. Use of these tanks was discontinued in 1982 and 1983 and the tanks have been removed from the site.
4. Studies conducted by Dames and Moore (1981), Faraday Mechanical (1982), and Applied Earth Consultants (1982, 1983, 1984) indicated the presence of chlorinated solvents (TCE, TCA, dichloroethanes and dichloroethylenes) in shallow onsite groundwater at concentrations as high as 32,000 ppb TCA. Additionally, elevated concentrations of chlorinated and aromatic solvents were detected in soils at several of the locations where chemicals had been used or stored.
5. Recent investigations have identified the contaminant plume upgradient and near the H-P Corporate building and indicate that the leading edge of the plume may be underneath the building.

6. Order No. 86-22, provides in part as follows:

Provision C.2.c.

" . . . submit a report on the finding of this investigation. The report shall include complete definition of the pollutant plume."

Provision C.3.c.

" Submit a report evaluating cleanup alternatives and recommending an interim cleanup strategy for the site acceptable to the Executive Officer. This report should evaluate the potential for migration of pollutants to surface waters and/or public and private wells . . ."

Provision C.4.

" The above actions should provide the dischargers with the information necessary for projection of the time requirements and ultimate concentrations of pollutants remaining in the groundwater under the cleanup program, and estimates of the cost and effectiveness and impacts on public health, welfare, and the environment, of a range of pending final cleanup alternatives. This information will be presented for Board consideration no later than one year following completion of Task C.3.d. Final cleanup limits shall be considered by the Board once compliance with prohibitions A.2 and A.3 and this provision are achieved."

7. Hewlett-Packard has requested time extensions for submittals of the above reports based on the consultants re-evaluation of current investigatory information.
8. Onsite interim containment and cleanup measures need to be implemented to alleviate the threat to the environment posed by the continued migration of the groundwater plume of organic solvents and to provide a substantive technical basis for designing and evaluating the effectiveness of final cleanup alternatives.
9. The Board grants these extensions with the understanding that the dischargers are committed to achieving full compliance with the revised submittal dates.
10. This project constitutes a minor modification to land and such activity is thereby exempt from the provisions of the California Environmental Quality Act under Section 115304, Title 14, of the California Administrative Codes.
11. The Board has notified the dischargers and interested persons and agencies of its intent to prescribe revised waste discharge requirements for the dischargers.

12. The Board in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that this Board's Order No. 86-22 is amended as follows:

COMPLIANCE DATE

- A. Provision C.2.c. is revised as follows:

March 20, 1987

Submit a technical report containing the methods, results and conclusions of an investigation to complete definition of the contaminant plume up to Hanover Street.

- B. Provision C.3.c. is revised as follows:

- 1) Submit a technical report which evaluates interim cleanup alternatives for the groundwater pollutant plume and for polluted soil in the vicinity of and upgradient of the Hewlett Packard Corporate Building and which contains a recommended plan for the Executive Officer's consideration.

March 2, 1987

- 2) Submit a technical report which evaluates interim cleanup alternatives for the remainder of the groundwater pollutant plume not addressed by 1) and which contains a recommended plan for the Executive Officer's consideration.

July 20, 1987

- C. Provision C.3.d. is revised as follows:

- 1) Complete construction and implement an interim cleanup plan, acceptable to the Executive Officer, for the groundwater and polluted soil in the vicinity of and upgradient of the Hewlett Packard Corporation Building.

September 1, 1987

- 2) Complete construction and implement an interim cleanup plan, acceptable to the Executive Officer, for the groundwater pollutant plume not addressed by 1).

January 22, 1988

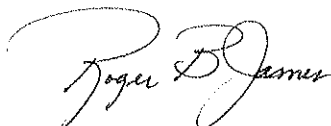
- D. Provision C.4. is revised as follows:

The dischargers will prepare a remedial investigation report and draft

March 1, 1989

feasibility study/remedial action plan based upon Section 25350, subpart F of National Oil and Hazardous Substances Pollution Contingency Plan (40 C.F.R Sec. 300.61 et seq.) and upon Section 25356.1 (c) of the Health and Safety Code.

I Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on December 17, 1986.

A handwritten signature in cursive script, reading "Roger B. James".

Roger B. James
Executive Officer